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ATGGAATCACAGACTCTGGTCTTCATATCCATACTGCTCTGGTTATATGGTGCTGATGGG  
M E S Q T L V F I S I L L W L Y G A D G  
AACATTGTTATGACCCAATCTCCCAAATCCATGTACGTGTCAATAGGAGAGAGGGTCACC  
N I V M T Q S P K S M Y V S I G E R V T  
TTGAGCTGCAAGGCCAGTGAAAATGTGGATACTTATGTATCCTGGTATCAACAGAAACCA  
L S C K A S E N V D T Y V S W Y Q Q K P  
GAGCAGTCTCCTAAACTGCTGATATATGGGGCATCCAACCGGTACACTGGGGTCCCCGAT  
E Q S P K L L I Y G A S N R Y T G V P D  
CGCTTCACGGGCAGTGGATCTGCAACAGATTTCACTCTGACCATCAGCAGTGTGCAGGCT  
R F T G S G S A T D F T L T I S S V Q A  
GAAGACCTTGCAGATTATCACTGTGGACAGAGTTACAACCTATCCATTCACGTTCTGGCTCG  
E D L A D Y H C G Q S Y N Y P F T F G S  
GGGACAAAGTTGGAAATAAAG  
G T K L E I K

FIG. 1A

ATGGGATGGAGCTGTATCATCCTCTTCTTGGTAGCAACAGCTACAGGTGTCCTCTCCCAG  
M G W S C I I L F L V A T A T G V L S Q  
GTCCAACTGCAGCAGCCTGGGGCTGACCTTGTGATGCCTGGGGCTCCAGTGAAGCTGTCC  
V Q L Q Q P G A D L V M P G A P V K L S  
TGCTTGGCTTCTGGCTACATCTTCACCAGCTCCTGGATAAACTGGGTGAAGCAGAGGCCT  
C L A S G Y I F T S S W I N W V K Q R P  
GGACGAGGCCTCGAGTGGATTGGAAGGATTGATCCTTCCGATGGTGAAGTTCACTACAAT  
G R G L E W I G R I D P S D G E V H Y N  
CAAGATTTCAAGGACAAGGCCACACTGACTGTAGACAAATCCTCCAGCACAGCCTACATC  
Q D F K D K A T L T V D K S S S T A Y I  
CAACTCAACAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCTAGAGGATTTCTG  
Q L N S L T S E D S A V Y Y C A R G F L  
CCCTGGTTTGTCTGACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA  
P W F A D W G Q G T L V T V S A

FIG. 1B

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ATGGAGACCGATACCCCTCCTGCTATGGGTCTCCTGCTATGGGTCCCAGGATCAACCGGA  
M E T D T L L L W V L L L W V P G S T G  
GATATTCAGATGACCCAGTCTCCGTCGACCCCTCTCTGCTAGCGTCGGGGATAGGGTCACC  
D I Q M T Q S P S T L S A S V G D R V T  
ATAACCTGCAAGGCCAGTGAAAATGTGGATACTTATGTATCCTGGTATCAGCAGAAGCCA  
I T C K A S E N V D T Y V S W Y Q Q K P  
GGCAAAGCTCCCAAGCTTCTAATTTATGGGGCATCCAACCGGTACACTGGGGTACCTTCA  
G K A P K L L I Y G A S N R Y T G V P S  
CGCTTCAGTGGCAGTGGATCTGGGACCGATTTCACCCTCACAATCAGCTCTCTGCAGCCA  
R F S G S G S G T D F T L T I S S L Q P  
GATGATTTGCGCACTTATTACTGCGGACAGAGTTACAACCTATCCATTACGTTTCGGTCAG  
D D F A T Y Y C G Q S Y N Y P F T F G Q  
GGGACCAAGGTGGAGGTCAAACGT  
G T K V E V K R

FIG. 2A

ATGGGATGGAGCTGGATCTTTCTCTTCCTCCTGTCAGGTACCGCGGGCGTGCACTCTCAG  
M G W S W I F L F L L S G T A G V H S Q  
GTCCAGCTTGTCCAGTCTGGGGCTGAACTCAAGAAACCTGGGAGCTCCGTGAAGGTCTCC  
V Q L V Q S G A E L K K P G S S V K V S  
TGCAAAGCTTCTGGCTACATCTTTACTAGCTCCTGGATAAACTGGGTAAAGCAGGCCCT  
C K A S G Y I F T S S W I N W V K Q A P  
GGACAGGGTCTCGAGTGGATTGGAAGGATTGATCCTTCCGATGGTGAAGTTCACTACAAT  
G Q G L E W I G R I D P S D G E V H Y N  
CAAGATTTCAAGGACAAGGCTACACTTACAGTCGACAAATCCACCAATACAGCCTACATG  
Q D F K D K A T L T V D K S T N T A Y M  
GAACTGAGCAGCCTGAGATCAGAGGACACTGCAGTCTATTACTGTGCAAGAGGATTTCTG  
E L S S L R S E D T A V Y Y C A R G F L  
CCCTGGTTTGCTGACTGGGGCCAAGGAACCCTGGTCACAGTCTCCTCAG  
P W F A D W G Q G T L V T V S S

FIG. 2B

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1          31      36      49
huXAF      QVQLVQSGAELKKPGSSVKVCKASGYIFT sswin WVRQAPGQGLEWIG
huZAF      QVQLVQSGAELKKPGSSVKVCKASGYIFT sswin WVKQAPGQGLEWIG
DIFF      -----*-----
haf25      QVQLVQSGAEVKKPGSSVKVCKASGYIFT sswin WVRQAPGQGLEWIG
DIFF      -----*-----

50          67          107
huXAF ridpsdgevhynqdfkd KATLTVDKSTNTAYMELSSLRSEDVAVYYCAR gflpwfad WQGGLTQVLT
huZAF ridpsdgevhynqdfkd KATLTVDKSTNTAYMELSSLRSEDVAVYYCAR gflpwfad WQGGLTQVLT
DIFF      -----*-----
haf25 ridpsdgevhynqdfkd KATLTVDKSTNTAYMELSSLRSEDVAVYYCAR gflpwfad WQGGLTQVLT
DIFF      XXXXXXXXXXXXXXXXXX *- *- *- *- XXXXXXXXXX

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FIG. 3

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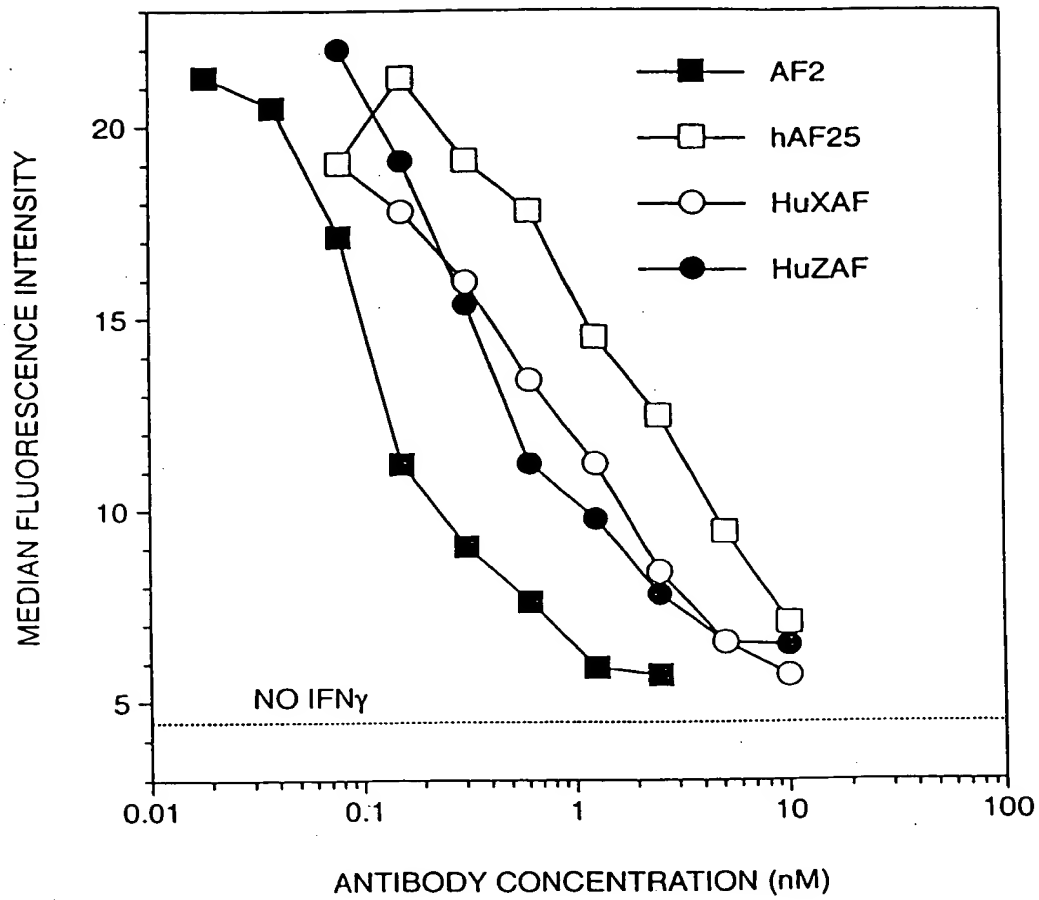


FIG. 4